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(54) ORGANIC SURFACE TREATING AGENT FOR ALUMINUM-ZINC ALLOY PLATED STEEL SHEET AND ALUMINUM-ZINC ALLOY PLATED STEEL SHEET TREATED BY THIS AGENT

(57)Abstract:

PURPOSE: To provide the Al-Zn alloy plated steel sheet having excellent alkaline resistance, black rust resistance and lubricity by applying the org. surface treating agent contg. a water-dispersible or water-soluble polyester resin or polyurethane resin to this steel sheet.

CONSTITUTION: The org. surface treating agent for the Al-Zn alloy plated steel sheet is obtd. by incorporating a mixture composed of ≥ 1 kinds of the water- dispersible or water-soluble polyester resin or polyurethane resin into this agent. This org. surface treating agent is applied to the surfaces of the Al-Zn alloy plated steel sheet subjected or not subjected to a chromate treatment at 0.3 to 4g/m² thickness by dry weight. The chromate treatment is preferably executed at <60mg/m² thickness in terms of chromic acid. A resin compsn. compounded with a chromium compd. of $\geq 30\%$ hexavalent chromium at 0.1 to 5% in terms of chromium oxide is preferably used in the case the steel sheet is not subjected to the chromate treatment.